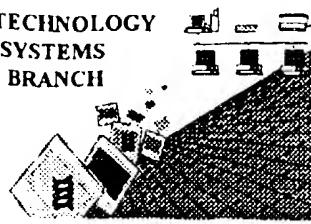# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/911,826A_

Source: _1600_

Date Processed by STIC: _7/31/2003_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO **REDUCE** ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM,** ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
         Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

1600

RAW SEQUENCE LISTING   DATE: 07/31/2003
PATENT APPLICATION: US/09/911,826A   TIME: 15:09:31

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\07312003\I911826A.raw

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   3 <110> APPLICANT: ROTIN, Daniela
   4         PHAM, Nam
   6 <120> TITLE OF INVENTION: RAS Activator Nucleic Acid Molecules, Polypeptides and
   7         Methods of Use
   9 <130> FILE REFERENCE: DWW-5001-US
  11 <140> CURRENT APPLICATION NUMBER: 09/911,826A
C--> 12 <141> CURRENT FILING DATE: 2001-07-20
  14 <150> PRIOR APPLICATION NUMBER: 2,259,830
  15 <151> PRIOR FILING DATE: 1999-01-20
  17 <160> NUMBER OF SEQ ID NOS: 28
  19 <170> SOFTWARE: PatentIn Ver. 2.1
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ERRORED SEQUENCES

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  1554 <210> SEQ ID NO: 28
  1556 <211> LENGTH: 149
  1558 <212> TYPE: PRT
  1560 <213> ORGANISM: Mus musculus
  1564 <400> SEQUENCE: 28
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  1571              20                  25                  30
  1574 Val Thr Pro Ser Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly Arg
  1575              35                  40                  45
  1578 Tyr Arg Glu Pro Pro Pro Thr Pro Pro Gly Tyr Val Gly Ile Pro Ile
  1579       50                  55                  60
  1582 Ala Asp Phe Pro Glu Gly Pro Cys His Pro Ala Arg Lys Pro Pro Asp
  1583 65                  70                  75                  80
  1586 Tyr Asn Val Ala Leu Gln Arg Ser Arg Met Val Ala Arg Pro Thr Glu
  1587              85                  90                  95
  1590 Ala Pro Ala Pro Gly Gln Thr Pro Pro Ala Ala Ala Ala Ser Arg Pro
  1591             100                 105                 110
  1594 Gly Ser Lys Pro Gln Trp His Lys Pro Ser Asp Ala Asp Pro Arg Leu
  1595             115                 120                 125
  1598 Ala Pro Phe Gln Ala Gly Phe Ala Gly Ala Glu Glu Asp Glu Asp Glu
  1599       130                 135                 140
  1602 Gln Val Ser Ala Val
  1603 145
E--> 1604 1
E--> 1606 29
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Delete

see pp 2-3 for more errors

<210> 4
<211> 286
<212> PRT
<213> Homo sapiens

<400> 4

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 1               5                  10                  15

Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ser Gly Gly Lys Asp
                20              25                  30

Val Ser Ala Glu Ala Glu Ser Ser Ser Met Val Pro Val Thr Thr Glu
            35                  40                  45

Glu Ala Lys Pro Val Pro Met Pro Ala His Ile Ala Val Thr Pro Ser
        50                  55                  60

Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly Arg Tyr Arg Glu Pro
65                  70                  75                  80

Pro Pro Thr Pro Pro Gly Tyr Val Gly Ile Pro Ile Ala Asp Phe Pro
                85                  90                  95

Glu Gly Pro Cys His Pro Ala Arg Lys Pro Pro Asp Tyr Asn Val Ala
            100                 105                 110

Leu Gln Arg Ser Arg Met Val Ala Arg Pro Thr Glu Ala Pro Ala Pro
            115                 120                 125

Gly Gln Thr Pro Pro Ala Ala Ala Ala Ser Arg Pro Gly Ser Lys Pro
        130                 135                 140

Gln Trp His Lys Pro Ser Asp Ala Asp Pro Arg Leu Ala Pro Phe Gln
145                 150                 155                 160

Ala Ala Ser His Ser Gly Thr Ser Pro Ala Thr Gln Thr His Ala Ser
                165                 170                 175

Arg Pro Ser Arg Gln Ala Ser Gln Glu Arg Arg Arg Thr Lys Met Asn
            180                 185                 190

Lys Cys Leu Leu Phe Glu Ala Gln Ala Pro Xaa Ser Thr Val Ser His
            195                 200                 205

Pro Lys Glu Ser Thr Arg Arg Arg Pro Lys Pro Trp Ser Leu Gly Thr
        210                 215                 220

His Ile Xaa Gly Trp Trp Thr Ser Leu Pro Pro Ser Leu Pro Xaa Ser
225                 230                 235                 240

Ser Met Gly Leu Leu Leu Pro Phe Phe Leu Ser Pro Leu His Val Lys
                245                 250                 255

Tyr Cys Glu Glu Ile Ala Leu Ala Leu Cys Arg Leu Val Ala Xaa Asn
            260                 265                 270
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Ala Gln Pro Ser Ser Pro Xaa Ala Ala Ala Cys His Val Thr
     275   280   285

sup 4

4

error explanation

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\07312003\I911826A.raw

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:4; Xaa Pos. 203,227,239,271,279
Seq#:5; Xaa Pos. 16,18,45,59,61,151,166,215
Seq#:6; Xaa Pos. 1,35,123,178,239
Seq#:15; Xaa Pos. 50

These sequences are erred, too.
no Xaa explanation

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\07312003\I911826A.raw**

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:407 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:1236 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:15
L:1236 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:15
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:48
L:1604 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
M:332 Repeated in SeqNo=28